In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A power conversion apparatus for converting power from an alternating source to dc, comprising:

an input stage for receiving power from the alternating source, which input stage includes an input filter,

rectifying means a rectifier for rectifying the alternating signal,

a capacitor for storing energy from the rectified signal,

an output for outputting power from the rectifying means rectifier and the capacitor to the pulsed load,

wherein the pulsed load has at least one switched winding which receives power from the output, and wherein the capacitor is dimensioned configured such that the voltage across the capacitor falls below 15% of the nominal peak rectified voltage of the source during each cycle of the alternating source.

- 2. (Currently Amended) A power conversion apparatus according to claim 1, wherein the capacitor is dimensioned configured such that the voltage across the capacitor falls below 10% of the nominal peak rectified voltage of the source during each cycle of the alternating source.
- 3. (Currently Amended) A power conversion apparatus according to claim 1 or 2, wherein the capacitor is dimensioned configured such that the voltage across the capacitor falls below 5% of the nominal peak rectified voltage of the source during each cycle of the alternating source.
- 4. (Currently Amended) A power conversion apparatus according to any one of the preceding claims claim 1 or 2, wherein the capacitor is dimensioned configured to store the amount of energy which is released from the winding when the winding is switched off.

- 5. (Currently Amended) A power conversion apparatus according to any one of the preceding claims claim 1 or 2, wherein the pulsed load has a switching frequency which is greater than 2KHz.
 - 6. (Canceled)
- 7. (Currently Amended) An electrical apparatus comprising a power conversion apparatus according to any one of the preceding claims claim 1 or 2 and a pulsed load.
- 8. (Currently Amended) An electrical apparatus according to claim 7, wherein the pulsed load is an inductive load which is repeatedly switched between an on state and an off state, wherein the duration of the on state is less than the off state so as to minimize or avoid flux build up in the inductive load.
- 9. (Currently Amended) An electrical apparatus according to claim 7 or 8, wherein the pulsed load comprises a motor having at least one switched phase winding.
- 10. (Original) An electrical apparatus according to claim 9, wherein the motor is a switched reluctance motor.
- 11. (Currently Amended) An electrical apparatus according to claim 9 or 10, further comprising an impeller which is driven by the motor.
- 12. (Currently Amended) An A vacuum cleaner comprising the electrical apparatus according to claim 11 in the form of a vacuum cleaner with and an airflow path formed within the vacuum cleaner, wherein the impeller is a suction fan for drawing air along the airflow path.
- 13. (Currently Amended) An electrical apparatus according to claim 9 or 10, further comprising a surface-treating device which is driven by the motor.
- 14. (Original) An electrical apparatus according to claim 13, in which the surface-treating device comprises an agitator which is rotatable by the motor.
- 15. (Currently Amended) An A vacuum cleaner comprising the electrical apparatus according to claim 14 in the form of a vacuum cleaner and an airflow path formed within the

<u>vacuum cleaner</u>, wherein the agitator is located in the <u>a</u> cleaner head or floor tool <u>of the vacuum</u> cleaner.

- 16. (Currently Amended) An electrical apparatus according to claim 7 or 8, wherein the pulsed load is a power supply, and the switched winding comprises a transformer.
 - 17. (Canceled)
- 18. (New) An electrical apparatus according to claim 8, wherein the pulsed load comprises a motor having at least one switched phase winding.
- 19. (New) An electrical apparatus according to claim 18, wherein the motor is a switched reluctance motor.
- 20. (New) An electrical apparatus according to claim 19, further comprising an impeller which is driven by the motor.
- 21. (New) An electrical apparatus according to claim 10, further comprising a surface-treating device which is driven by the motor.
- 22. (New) A vacuum cleaner comprising the electrical apparatus according to claim 14 and an airflow path formed within the vacuum cleaner, wherein the agitator is located in a cleaner head or floor tool of the vacuum cleaner and the motor is a switched reluctance motor.